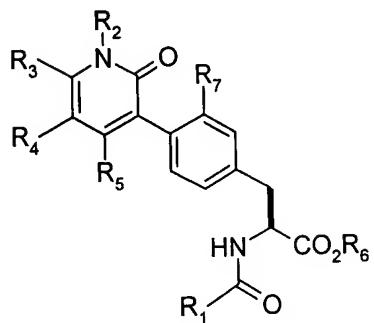
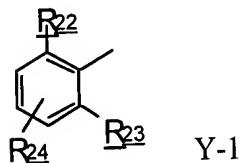


Claims:

1. A compound of the formula:



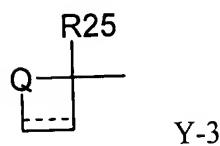
wherein R₁ is a group of the formula Y-1



wherein R₂₂ and R₂₃ are independently hydrogen, lower alkyl, lower alkoxy, cycloalkyl, aryl, arylalkyl, nitro, cyano, lower alkylthio, lower alkylsulfinyl, lower alkyl sulfonyl, lower alkanoyl, halogen, or perfluorolower alkyl and at least one of R₂₂ and R₂₃ is other than hydrogen, and R₂₄ is hydrogen, lower alkyl, lower alkoxy, aryl, nitro, cyano, lower alkyl sulfonyl, or halogen; or

R_1 is a group of the formula Y-2, which is a five or six membered heteroaromatic ring bonded via a carbon atom to the amide carbonyl wherein said ring contains one, two or three heteroatoms selected from the group consisting of N, O and S and one or two atoms of said ring are independently substituted by lower alkyl, cycloalkyl, halogen, cyano, perfluoro lower alkyl, or aryl and at least one of said substituted atoms is adjacent to the carbon atom bonded to the amide carbonyl; or

R₁ is a group of the formula Y-3 which is a 3-7 membered ring of the formula:



wherein R₂₅ is lower alkyl, unsubstituted or fluorine substituted lower alkenyl, or a group of formula R₂₆—(CH₂)_e—, R₂₆ is aryl, heteroaryl, azido, cyano, hydroxy, lower alkoxy, lower alkoxy carbonyl, lower alkanoyl, lower alkylthio, lower alkylsulfonyl, lower alkylsulfinyl, perfluoro lower alkanoyl, nitro, or R₂₆ is a group of formula -NR₂₈R₂₉, wherein R₂₈ is hydrogen or lower alkyl, R₂₉ is hydrogen, lower alkyl, lower alkoxy carbonyl, lower alkanoyl, aroyl, perfluoro lower alkanoylamino, lower alkylsulfonyl, lower alkylaminocarbonyl, arylaminocarbonyl; or R₂₈ and R₂₉, taken together with the attached nitrogen atom, form a 4, 5 or 6-membered saturated heterocyclic ring optionally containing one additional heteroatom selected from O, S, and N—R₄₀.

Q is -(CH₂)_fO-, -(CH₂)_fS-, -(CH₂)_fN(R₂₇)-, -(CH₂)_f-,

R₂₇ is H, lower alkyl, aryl, lower alkanoyl, aroyl or lower alkoxy carbonyl,

R₄₀ is H, lower alkyl, aryl, lower alkanoyl, aroyl or lower alkoxy carbonyl, the carbon atoms in the ring are unsubstituted or substituted by lower alkyl or halogen,

e is an integer from 0 to 4, and f is an integer from 0 to 3;

R₂ is hydrogen, lower alkyl, substituted lower alkyl, aryl, or aryl lower alkyl;

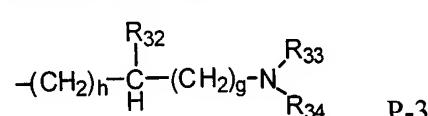
R₃ is hydrogen, halogen, lower alkyl, trifluoromethyl, or aryl;

R₄ is hydrogen, halogen, lower alkyl, or aryl;

R₅ is hydrogen, lower alkyl, lower alkoxy, or trifluoromethyl, or OH;

R₆ is hydrogen, lower alkyl, lower alkylcarbonyloxy lower alkyl,

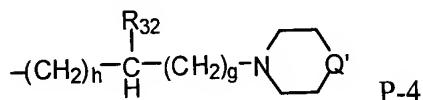
or R₆ is a group of formula P-3:



wherein:

R_{32} is hydrogen or lower alkyl; R_{33} is hydrogen, lower alkyl, aryl; R_{34} is hydrogen or lower alkyl; h is an integer from 0 to 2; g is an integer from 0 to 2; the sum of h and g is 1 to 3; or

R_6 is a group of formula P-4:



wherein: R_{32} , g , and h are as previously defined; Q' is O, S, $-(CH_2)_j$ -, or a group of the formula $N-R_{35}$; wherein R_{35} is hydrogen, lower alkyl, lower alkanoyl, lower alkoxy carbonyl; j is 0, 1 or 2; and R_7 is hydrogen, chloro, lower alkoxy, or lower alkyl; or the pharmaceutically acceptable salts thereof.

2. A compound of claim 1 wherein Q is $-(CH_2)_f O$ -, $-(CH_2)_f S$ -, or, $-(CH_2)_f$ -.
3. A compound of claim 2 wherein R_5 is hydrogen, lower alkyl, or trifluoromethyl.
4. A compound of claim 1 wherein R_1 is a group of the formula Y-1 wherein R_{22} and R_{23} are independently lower alkyl or halogen and R_{24} is hydrogen.
5. A compound of claim 1 wherein R_1 is a group of the formula Y-1 wherein R_{22} and R_{23} are independently hydrogen, lower alkyl or halogen and R_{24} is hydrogen, lower alkyl or lower alkoxy.
6. A compound of claim 5 wherein R_{22} and R_{23} are independently hydrogen, lower alkyl or halogen, R_{24} is hydrogen or lower alkoxy and R_2 is aryl lower alkyl.

7. A compound of claim 1 wherein R_1 is a group of the formula Y-3 wherein R_{25} a group of formula $R_{26}-(CH_2)_e-$, wherein R_{26} is lower alkoxy, Q is $-(CH_2)_f-$, e is an integer from 0 to 4 and f is an integer from 0 to 3.

8. A compound of claim 1 wherein R_1 is a group of the formula Y-3 and R_2 is hydrogen, lower alkyl, substituted lower alkyl or aryl lower alkyl.

9. A compound of claim 8 wherein R_1 is a group of the formula Y-3 wherein R_{25} is a group of formula $R_{26}-(CH_2)_e-$, wherein R_{26} is lower alkoxy, Q is $-(CH_2)_f-$, e is an integer from 0 to 4, f is an integer from 0 to 3; and R_2 is aryl lower alkyl.

10. A compound of claim 1 wherein
 R_2 is hydrogen, lower alkyl or aryl lower alkyl;
 R_3 is hydrogen;
 R_4 is hydrogen or halogen;
 R_5 is hydrogen, lower alkyl, or trifluoromethyl, or lower alkoxy;
 R_6 is hydrogen or lower alkyl; and
 R_7 is hydrogen, chloro, lower alkoxy, or lower alkyl.

11. A compound of claim 10 wherein R_1 is a group of the formula Y-1.

12. A compound of claim 11 wherein R_1 is a group of the formula Y-1 wherein R_{22} and R_{23} are independently lower alkyl or halogen and R_{24} is hydrogen or lower alkoxy.

13. A compound of claim 11 wherein R_1 is a group of the formula Y-1 wherein R_{22} and R_{23} are independently hydrogen, lower alkyl or halogen and R_{24} is hydrogen, lower alkyl or lower alkoxy.

14. A compound of claim 13 wherein R₁ is a group of the formula Y-1 wherein R₂₂ and R₂₃ are independently hydrogen, lower alkyl or halogen, R₂₄ is hydrogen and R₂ is aryl lower alkyl.

15. A compound of claim 10 wherein R₁ is a group of the formula Y-2.

16. A compound of claim 10 wherein R₁ is a group of the formula Y-3.

17. A compound of claim 16 wherein R₁ is a group of the formula Y-3 wherein R₂₅ is a group of formula R₂₆—(CH₂)_e—, wherein R₂₆ is lower alkoxy, Q is -(CH₂)_f—, e is an integer from 0 to 4 and f is an integer from 0 to 3.

18. A compound of claim 10 wherein R₁ is a group of the formula Y-3 wherein R₂₅ is a group of formula R₂₆—(CH₂)_e—, wherein R₂₆ is lower alkoxy, Q is -(CH₂)_f—, e is an integer from 0 to 4, f is an integer from 0 to 3, and R₂ is aryl lower alkyl.

19. A compound of claim 10 wherein
R₂ is hydrogen, lower alkyl or aryl lower alkyl;
R₃ is hydrogen;
R₄ is halogen;
R₅ is hydrogen;
R₆ is hydrogen or lower alkyl; and
R₇ is hydrogen, chloro, lower alkoxy, or lower alkyl.

20. A compound of claim 3 wherein R₁ is a group of formula Y-1 or a group of formula Y-3;
R₂ is hydrogen, lower alkyl or aryl lower alkyl;
R₃ is hydrogen, lower alkyl, or trifluoromethyl;
R₄ is hydrogen or halogen;
R₅ is hydrogen, lower alkyl, or trifluoromethyl;

R₆ is hydrogen, lower alkyl, lower alkylcarbonyloxy lower alkyl, a group of formula P-3; or a group of formula P-4, and
R₇ is hydrogen or lower alkyl.

21. A compound of claim 20 wherein

R₂ is lower alkyl or aryl lower alkyl;

R₆ is hydrogen, lower alkyl, lower alkylcarbonyloxy lower alkyl, or a group of formula P-3; and

R₇ is hydrogen.

22. A compound of claim 21 wherein R₂₂ and R₂₃ are hydrogen, halogen or lower alkyl, R₂₄ is hydrogen or lower alkoxy, R₂₅ is a group of formula R₂₆—(CH₂)_e—, wherein R₂₆ is lower alkoxy, Q is -(CH₂)_f—, e is an integer from 0 to 4 and f is an integer from 0 to 3.

23. A compound of claim 22 wherein R₂ is lower alkyl, R₄ is hydrogen, and R₃ and R₅ are lower alkyl or trifluoromethyl.

24. A compound of claim 23 where R₆ is hydrogen.

25. A compound of claim 24 wherein R₁ is Y-3.

26. A compound of claim 25 which is N-[[1-(2-methoxyethyl)cyclopentyl]carbonyl]-4-[1,6-dimethyl-4-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine.

27. A compound of claim 23 wherein R₆ is lower alkyl.

28. A compound of claim 27 which is N-[(2,6-dichlorophenyl)carbonyl]-4-[1,6-dimethyl-4-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine ethyl ester.

29. A compound of claim 27 which is N-[(2,6-dichlorophenyl)carbonyl]-4-[1,4-dimethyl-6-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine ethyl ester.

30. A compound of claim 27 which is N-[(2-chloro-6-methylphenyl)carbonyl]-4-[1,6-dimethyl-4-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine ethyl ester.

31. A compound of claim 27 which is N-[(2-chloro-6-methylphenyl)carbonyl]-4-[1,4-dimethyl-6-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine ethyl ester.

32. A compound of claim 23 wherein R₆ is lower alkylcarbonyloxy lower alkyl.

33. A compound of claim 32 which is N-[(2,6-dichlorophenyl)carbonyl]-4-[1,6-dimethyl-4-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine 1-(acetoxy)ethyl ester.

34. A compound of claim 32 which is N-[(2,6-dichlorophenyl)carbonyl]-4-[1,4-dimethyl-6-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine 1-(acetoxy)ethyl ester.

35. A compound of claim 32 which is N-[(2-chloro-6-methylphenyl)carbonyl]-4-[1,6-dimethyl-4-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine 1-(acetoxy)ethyl ester.)

36. A compound of claim 32 which is N-[(2-chloro-6-methylphenyl)carbonyl]-4-[1,4-dimethyl-6-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine 1-(acetoxy)ethyl ester.

37. A compound of claim 23 wherein R₆ is a group of formula P-3 wherein R₃₂ is hydrogen; R₃₃ and R₃₄ are lower alkyl; one of g and h is 1 and the other is 0.

38. A compound of claim 37 which is N-[(2,6-dichlorophenyl)carbonyl]-4-[1,6-dimethyl-4-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine 2-[(N,N-diethyl)amino]ethyl ester.

39. A compound of claim 37 which is N-[(2,6-dichlorophenyl)carbonyl]-4-[1,4-dimethyl-6-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine 2-[(N,N-diethyl)amino]ethyl ester.

40. A compound of claim 37 which is N-[(2-chloro-6-methylphenyl)carbonyl]-4-[1,6-dimethyl-4-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine 2-[(N,N-diethyl)amino]ethyl ester.

41. A compound of claim 37 which is N-[(2-chloro-6-methylphenyl)carbonyl]-4-[1,4-dimethyl-6-(trifluoromethyl)-2-oxo-3-pyridinyl]-L-phenylalanine 2-[(N,N-diethyl)amino]ethyl ester.

42. A compound of claim 22 wherein R₆ is hydrogen.

43. A compound of claim 42 wherein R₂ is lower alkyl; R₃ is hydrogen; R₄ is hydrogen or halogen; and R₅ is hydrogen or lower alkyl.

44. A compound of claim 43 wherein R₁ is Y-1.

45. A compound of claim 44 wherein R₂₂ and R₂₃ are lower alkyl or halogen, and R₂₄ is hydrogen.

46. A compound of claim 45 which is N-[(2-chloro-6-methylphenyl)carbonyl]-4-(5-chloro-1-methyl-2-oxo-3-pyridinyl)-L-phenylalanine.

47. A compound of claim 45 which is N-[(2-chloro-6-methylphenyl)carbonyl]-4-(1-methyl-2-oxo-3-pyridinyl)-L-phenylalanine.

48. A compound of claim 45 which is N-[(2-chloro-6-methylphenyl)carbonyl]-4-(1,4-dimethyl-2-oxo-3-pyridinyl)-L-phenylalanine.

49. A compound of claim 44 wherein R₂₂ and R₂₃ are halogen, and R₂₄ is hydrogen.

50. A compound of claim 49 which is N-[(2,6-dichlorophenyl)carbonyl]-4-(1,4-dimethyl-2-oxo-3-pyridinyl)-L-phenylalanine.

51. A compound of claim 44 wherein R₂₂ and R₂₃ are halogen or hydrogen and R₂₄ is lower alkoxy.

52. A compound of claim 51 which is N-[(2-bromo-5-methoxyphenyl)carbonyl]-4-(1-methyl-2-oxo-3-pyridinyl)-L-phenylalanine.

53. A compound of claim 51 which is N-[(2-bromo-5-methoxyphenyl)carbonyl]-4-(5-bromo-1-methyl-2-oxo-3-pyridinyl)-L-phenylalanine.

54. A compound of claim 43 wherein R₁ is Y-3.

55. A compound of claim 54 which is 4-(5-chloro-1-methyl-2-oxo-3-pyridinyl)-N-[[1-(2-methoxyethyl)cyclopentyl]carbonyl]-L-phenylalanine.

56. A compound of claim 21 wherein R₂₂ and R₂₃ are halogen or lower alkyl, R₂₄ is hydrogen or lower alkoxy, R₂₅ is a group of formula R₂₆-(CH₂)_e- , wherein R₂₆ is lower alkoxy, Q is -(CH₂)_f, e is an integer from 0 to 4 and f is an integer from 0 to 3.

57. A compound of claim 56 wherein R₂ is aryl lower alkyl; R₃ is hydrogen, R₄ is halogen, and R₅, R₆ and R₇ are hydrogen.

58. A compound of claim 57 wherein R₁ is Y-1.

59. A compound of claim 58 which is 4-(1-Benzyl-5-chloro-2-oxo-3-pyridinyl)-N-[(2-chloro-6-methylphenyl)carbonyl]-L-phenylalanine.

60. A compound of claim 57 wherein R₁ is Y-3.

61. A compound of claim 60 which is 4-(1-Benzyl-5-chloro-2-oxo-3-pyridinyl)- N-[[1-(2-methoxyethyl)cyclopentyl]carbonyl]-L-phenylalanine.